

Patent Abstracts of Japan

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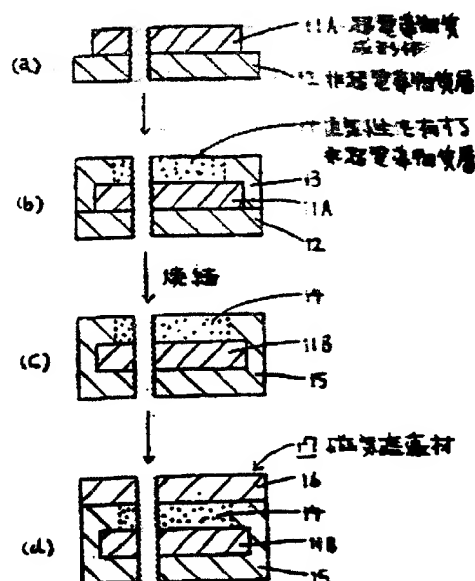
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TITLE : MANUFACTURE OF
SUPERCONDUCTIVE MAGNETIC
SHIELDING MATERIAL



ABSTRACT : PURPOSE: To obtain a magnetic shielding material which utilizes an oxide series superconductive material stable in a magnetic shielding property by a method wherein an unsintered plate-like oxide series superconductor molded body is wrapped with a partially air-permeable non-superconductive material and subjected to a sintering treatment, and then a sealing treatment is performed onto the air-permeable non-superconductive material layer face.

CONSTITUTION: A superconductive magnetic shielding material 17, which has such a structure that a plate-like oxide series superconductive material molded body 11B is completely wrapped with non-superconductive material layers 14-16, is manufactured in such a manner that the unsintered plate-like oxide series superconductive material molded body 11A is made to be completely wrapped with the non-superconductive material 12-14 so as to be, at least, partially wrapped with an air-permeable non-superconductive material layer 14 and subjected to a sintering treatment, and then a sealing treatment is performed onto the permeable non-superconductive material layer 14 face. For example, the plate-like oxide series superconductive material 11A is laminated on a nickel plate 12, and then a composite plate 13 composed of a partially air permeable nickel plate 14 is made to cover the rest face of the molded body 11A. Next, the molded body 11A is made to be sintered in an oxygen atmosphere at a temperature of 900°C, then gradually cooled down to a room temperature, applied with epoxy resin paste, and subjected to a sealing treatment.

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